identifier, wherein the output presentation including a number of
displayable objects and respective decoration attributes about each of
the displayable objects;

program code for forming a number of group objects, each of the group
objects including one or more of the displayable objects;

program code for associating each of the group objects with the identifier
in one of the document elements; and

program code for creating the structured document from the output
presentation in accordance with the at least one of the document
elements being associated with the one of the displayable objects.

40.   (*twice amended*) The machine-readable medium of claim 39 further
comprising program code for generating a modified output presentation including
information of each of the group objects being associated with the identifier in
one of the document elements.

Remarks

Claims 1 - 42 were pending. In this Office Action, the Examiner has rejected
Claim 1-7, 9-31 and 33-42 pending under 35 USC 103(a) as being unpatentable over
Borgendale et al (US Pat. No.: 5,276,793) in view of Japanese Publication – Pub. No.:
JP08030619A by Fuji Xerox, and further in view of Fallside (US Pat. No.: 6,003,048).
The three cited references are referred to hereinafter as Borgendale, Fuji Xerox and
Fallside, respectively. Claims 8 and 32 are objected to as being dependent upon a
rejected base claim, but would be allowable if rewritten in independent form including all
of the limitations of the base claim and any intervening claims.

After the above amendments in which Claims 4 and 28 are cancelled, Claims 1-
2, 5-6, 9, 11, 15-16, 18-22, 25-26, 29-30, 33 and 39-40 are amended. No new matters
are introduced in the foregoing amendments. As a result of the amendments, Claims 1–
3, 5-27, and 29-42 are now pending. Reconsideration of the pending claims is
respectfully requested based on the following remarks.

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As amended, Claim 1 recites:

> receiving a definition file including document type definitions (DTD) to generate a tree structure showing hierarchical relationships of document elements;
> displaying an output presentation along with the tree structure, the output presentation including a number of displayable objects and respective decoration attributes about each of the displayable objects;
> associating at least one of the document elements in the tree structure with one of the displayable objects; and
> creating the structured document from the output presentation in accordance with the at least one of the document elements being associated with the one of the displayable objects.

The features recited are supported in FIG. 3B and the corresponding description in the specification. Specifically, the amended Claim 1 recites that the DTD is used to generate a tree structure showing hierarchical relationships of document elements (see, for example, 330 of FIG. 3B) such that "associating at least one of the document elements in the tree structure with one of the displayable objects" can be proceeded. Such features are neither taught nor suggested in Borgendale, Fuji Xerox and Fallside, viewed individually or in combination. The "DTD" in Borgendale defines how an object (e.g., a character) is presented in an output and such tree structure generated from the DTD makes no use to Borgendale. Similarly, Fallside does not depend on a DTD to generate a tag file. Fuji Xerox, as commented by the Examiner, shows "a document as a table, based on a DTD", and does not teach in any way about the generation of the tree structure based on the DTD. Accordingly, the Applicant believes the rejection to Claim 1 has been overcome and respectfully requests that the Examiner reconsider the amended Claim 1 and its corresponding dependent claims.

Claim 15 has been amended to include the feature of the second display displaying a tree structure showing hierarchical relationships among document elements in addition to a definition file including document type definitions (DTD), wherein the tree structure is derived from the DTD. If the two displays 41 and 42 of Fuji Xerox were applicable, neither of the two displays, at the same time, display a DTD and a tree structure derived from the DTD. Similarly, Borgendale uses a complete document construction module to define how an object (e.g., a character) is presented in an output and requires no further information (e.g., a tree structure) to proceed forward while

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Fallside does not depend on a DTD to generate a tag file. Accordingly, the Applicant believes the rejection to Claim 15 has been overcome and respectfully requests that the Examiner reconsider the amended Claim 15 and its corresponding dependent claims

Independent Claims 25 and 39 are computer program product claims, mirroring the preceding method claims. Accordingly, the Examiner rejects the Claims 25 and 39 and the corresponding dependent claims 26 - 38 and 40 - 42 using the similar reasons. Hence, the Applicant respectfully requests that the Examiner reconsider the amended Claims 25 and 39 and their respective corresponding dependent claims.

In view of the above amendments and remarks, it is believed by the Applicant that the pending claims 1-3, 5-27, and 29-42 shall be in condition for allowance over the cited references. Therefore, it is believed that the entire application is now in condition for allowance, early and favorable action is being respectfully solicited.

If there are any issues remaining which the Examiner believes could be resolved through either a Supplementary Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at (408)777-8873.

<table>
<tr><td>
I hereby certify that this correspondence is being faxed to the attention of Mr. Examiner William L. Bashore at (703)746-7239,

on <u>6/27</u>, 2002.

Signed: <u>J. Zheng</u>
</td></tr>
</table>

Respectfully submitted;

Joe Zheng

Joe Zheng
Reg. No.: 39,450

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Version with markings to show changes made

In the Claims

Please cancel Claims 4 and 28, and amend Claims 1-2, 5-6, 9, 11, 15-16, 18-22, 25-26, 29-30, 33 and 39-40 as follows:

1.   *(three-times amended)* A method for producing a structured document, the method comprising:

receiving a definition file including document type definitions (DTD) <u>to generate a tree structure showing hierarchical relationships of document elements</u>;

displaying an output presentation along with the [definition file] <u>tree structure</u>, the output presentation including a number of displayable objects [being displayed] and respective decoration attributes about each of the displayable objects;

associating at least one of the <u>document elements in the tree structure</u> [definitions in the definition file] with one of the displayable objects; and

creating the structured document from the output presentation in accordance with the at least one of the [definitions] <u>document elements</u> being associated with the one of the displayable objects.

2.   *(three-times amended)* The method of claim 1 further comprising:

generating a modified output presentation that includes the displayable objects, each of the displayable objects being modified in accordance with the at least one of the [definitions] <u>document elements</u> in the <u>tree structure</u>[definition file].

5.   *(twice amended)* The method of claim [4]<u>1</u>, wherein some of the document elements include another layer of sub-document elements, each of sub-

document elements corresponds to one of the displayable objects in the output presentation.

6.   (*Once amended*) The method of claim [4]1, wherein at least some of the document elements include respectively a number of identifiers, each of the identifiers being assigned to one of the at least some of the document elements.

9.   (*Once amended*) The method of claim 6, wherein the associating of the at least one of the <u>document elements in the tree structure</u> [definitions in the definition file] <u>with one of the displayable objects</u> comprises:

    selecting one of the displayable objects; and

    assigning one of the identifiers to the selected display object.

11.   (*Once amended*) The method of claim 10, wherein the one of the identifiers is one or more of (i) a font type, (ii) a color, (iii) a size, (iv) a style, and (v) an effect.[.]

15.   (*three-times amended*) A method for producing a structured document, the method comprising:

    activating an environment including a first display and a second display, the first display displaying an output presentation and the second display displaying a definition file including document type definitions (DTD) <u>and a tree structure showing hierarchical relationships among document elements, the tree structure derived from the DTD and each of the document elements including an identifier</u>, wherein the [an] output presentation including a number of displayable objects [being displayed] and respective decoration attributes about each of the displayable objects[, wherein each of the document type definitions includes an identifier];

    forming a number of group objects, each of the group objects including one or more of the displayable objects; and

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associating each of the group objects with the identifier in one of the

document elements[type definitions]; and

creating the structured document from the output presentation in

accordance with the at least one of the [definitions] document elements

being associated with the one of the displayable objects.

16. (twice amended) The method of claim 15 further comprising generating a

modified output presentation including information of each of the group objects

being associated with the identifier in one of the document [type

definitions] document elements.

18. (Once amended) The method of claim 17, wherein the markup language

file is suitable for presentation on a selected media.

19. (Once amended) The method of claim 18, wherein the selected media is a

web presentation on the Internet.

20. (Once amended) The method of claim 18, wherein the markup language

file is based on a markup language selected from a group consisting of

HyperText Markup Language (HTML), compact HyperText Markup Language

(cHTML), Extensible Markup Language (XML), Standard Generalized Markup

Language (SGML) or Wireless Markup Language (WML).

21. (Once amended) The method of claim 15, wherein some of the decoration

attributes include at least position, font type, color, size, style, and effect for each

of the groups of characters.

22. (Once amended) The method of claim 21, wherein some of the

displayable objects are respective groups of characters.

25. (three-times amended) A machine-readable medium embodying

instructions for execution by a processor, the instructions, when executed by the

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processor, causing the processor to produce a structured document, the machine-readable medium comprising:

> program code for receiving a definition file including document type definitions (DTD) to generate a tree structure showing hierarchical relationships of document elements;
>
> program code for displaying an output presentation along with the [definition file] tree structure, the output presentation including a number of displayable objects [being displayed] and respective decoration attributes about each of the displayable objects;
>
> program code for associating at least one of the [definitions] document elements in the tree structure[definition file] with one of the displayable objects; and
>
> program code for creating the structured document from the output presentation in accordance with the at least one of the [definitions] document elements being associated with the one of the displayable objects.

26. (*three-times amended*) The machine-readable medium of claim 25 further comprising:

> program code for generating a modified output presentation that includes the displayable objects, each of the displayable objects being modified in accordance with the at least one of the [definitions] document elements in the definition file.

29. (*twice amended*) The machine-readable medium of claim [28]25, wherein some of the document elements include another layer of sub-document elements, each of sub-document elements corresponds to one of the displayable objects in the output presentation.

30. (*once amended*) The machine-readable medium of claim [28]25, wherein at least some of the document elements include respectively a number of

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Identifiers, each of the identifiers being assigned to one of the at least some of the document elements.

33. (*once amended*) The machine-readable medium of claim 30, wherein the program code for associating [of] the at least one of the [definitions] document elements [in the definition file] comprises:

program code for selecting one of the displayable objects; and

program code for assigning one of the identifiers to the selected display object.

39. (*three-times amended*) A machine-readable medium embodying instructions for execution by a processor, the instructions, when executed by the processor, causing the processor to produce a structured document, the machine-readable medium comprising:

program code for activating an environment including a first display and a second display, the first display displaying an output presentation and the second display displaying a definition file including document type definitions (DTD) and a tree structure showing hierarchical relationships among document elements, the tree structure derived from the DTD and each of the document elements including an identifier, wherein the output presentation including a number of displayable objects [being displayed] and respective decoration attributes about each of the displayable objects[, and wherein each of the document type definitions includes an identifier];

program code for forming a number of group objects, each of the group objects including one or more of the displayable objects;

program code for associating each of the group objects with the identifier in one of the document elements [type definitions]; and

program code for creating the structured document from the output presentation in accordance with the at least one of the document elements [definitions] being associated with the one of the displayable objects.

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40. (*twice amended*) The machine-readable medium of claim 39 further comprising program code for generating a modified output presentation including information of each of the group objects being associated with the identifier in one of the document elements [type definitions].